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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/933,091	08/20/2001	Jae-Yoel Kim	678-720 (P9793)	6639
28249 75	90 05/04/2005		EXAMINER	
DILWORTH & BARRESE, LLP			PHUNKULH, BOB A	
• • • • • • • • • • • • • • • • • • • •	/INGTON BLVD.		ART UNIT PAPER NUMBER 2661	
UNIONDALE,	NY 11555			

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	Application No.	Applicant(s)				
	09/933,091	KIM, JAE-YOEL				
Office Action Summary	Examiner	Art Unit				
	Bob A. Phunkulh	2661				
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet w	ith the correspondence address -	•			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ly within the statutory minimum of thi will apply and will expire SIX (6) MOI e, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	ition.			
Status						
1) Responsive to communication(s) filed on 20 A	lugust 2001.					
2a) This action is FINAL . 2b) ☐ This	s action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.). 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-32 is/are pending in the application	1.					
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5)⊠ Claim(s) <u>16-32</u> is/are allowed.	☑ Claim(s) <u>16-32</u> is/are allowed.					
6)⊠ Claim(s) <u>1-15</u> is/are rejected.	Claim(s) <u>1-15</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>20 August 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 	ts have been received.					
_	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
application from the International Burea	•	received in this National Stage				
* See the attached detailed Office action for a list	, , , , , , , , , , , , , , , , , , , ,	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/7/2002. 		s/iwaii Date : nformal Patent Application (PTO-152) 				

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DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-15 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Regarding claim 1-15, the claims call for a method for generating first order

Reed-Muller codes. The method that consists solely of the manipulation of the abstract idea/mathematical idea without any limitation to a practical application is non-statutory.

Allowable Subject Matter

Claims 16-32 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Claims 16-33 are considered allowable over the prior art of record since the prior art of record fails to show or fairly suggest a puncturer for puncturing coded symbols in puncturing positions corresponding to 2^t linear combinations, obtained from *t* linearly independent kth order vectors, from the 2^k coded symbols, and outputting (2^k-2^t) and in combination with other limitations cited in claims 16, and 21; and

selecting t linearly independent k^{th} order vectors, and calculating positions corresponding to 2^{t} linear combinations obtained by combining the t selected vectors; outputting 2^{k} coded symbols by inserting zero (0) bits in the calculated positions of the

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(2^k-2^t) coded symbols and in combination with other limitations cited in claims 27 and 32.

Conclusion

Any response to this action should be mailed to:

The following address mail to be delivered by the United States Postal Service (USPS) only:

Mail Stop _____ Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

or faxed to:

(703) 872-9306, (for formal communications intended for entry)

Or:

The following address mail to be delivered by other delivery services (Federal Express (Fed Ex), UPS, DHL, Laser, Action, Purolater, Hand Delivery, etc.) as follow:

U.S. Patent and Trademark Office 220 20th Street South Customer Window, Mail Stop _____ Crystal Plaza Two, Lobby, Room 1B03 Arlington, VA 22202.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Bob A. Phunkulh** whose telephone number is **(571) 272-3083.** The examiner can normally be reached on Monday-Tursday from 8:00 A.M.

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to 5:00 P.M. (first week of the bi-week) and Monday-Friday (for second week of the bi-

week).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

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supervisor Chau Nguyen, can be reach on (571) 272-3126. The fax phone number for

this group is (703) 872-9306.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

Bob A. Phunkulh

TC 2600

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April 26, 2005

BOB PHUNKULH PRIMARY EXAMINED